

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

<b>CONTRACTOR</b>	<b>CONTRACT NO. / TASK NO.</b>	<b>AMENDMENT</b>	<b>JOB ORDER NUMBER</b>	<b>APPROVAL</b>
QSS Group, Inc.	NASS- 99124      TASK NO. 80		405-218-80-20-89	99

**TASK TITLE:** (NTE 80 characters; include Project name)

**TDRS Project Engineering Services**

**APPROVALS:** (Type or print name and sign)

**ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)**

Anthony B. Comberiate <i>[Signature]</i>	DATE: 5/10/99	ORG CODE: 405	MAIL CODE: 405	PHONE: 301-286-8520
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**BRANCH HEAD**

Anthony B. Comberiate	DATE:	CODE: 405	PHONE: 301-286-8520
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**CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)**

Fred Huegel <i>[Signature]</i>	DATE: 5/10/99	CODE: 568	PHONE: 301-286-2285
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**FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?**  
(IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)

**CONTRACTING OFFICER'S QUALITY REP.**

**DESIGNATED FAM:**

(X) NO      ( ) YES

Larry Moore

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reqs and Certs.

(To be completed by Contracting Officer)

**C.O. Requested Quote on:**

**Date:** MAY 12 1999

Contractor will develop specification or statement of work under this task for a future proc (X) NO ( ) YES

Flight hardware will be shipped to GSFC for testing prior to final de ( ) NO ( ) YES (X) N/A

Government Furnished Property/Facility: (X) NO ( ) YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance: ( ) NO (X) YES      If yes: (X) TOTAL ( ) PARTIAL  
If partial, indicate onsite work in SOW by asterisk (\*)

Surveillance Plan Attached: (X) NO ( ) YES

Highlighted Contract Clauses: (to be completed by Contracting Officer)

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be May 12, 1999.

**INCENTIVE FEE STRUCTURE**

(check one)

(See Contract NASS-99124, Attachment K, Incentive Fee Plan)

	No. 1	No. 2	<u>X</u> No. 3	No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(to be completed by Contracting Officer)

The target cost of this task order is \$ 511,834

The target fee of this task order is \$ 33,269

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 545,103

The maximum fee is \$ 48,624

The minimum fee is \$0.

**AUTHORIZED SIGNATURE**

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE 'TASK ASSIGNMENTS AND REPORTS'

*[Signature]*

10/13/99

Lorrie L. Eakin  
Contracting Officer

TYPED NAME OF CONTRACTING OFFICER

**CONTRACTOR'S ACCEPTANCE**

AUTHORIZED SIGNATURE

DATE

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QSS Group, Inc.	NAS5- 99124	80	

Applicable paragraphs from contract Statement of Work: Function 2B

**STATEMENT OF WORK:**

Systems engineering analyzing the design, development, fabrication, test, deployment, and operation of the TDRS space, ground and launch segments. This activity includes review, analysis and evaluation of the Prime Contractor's end-to-end design including the functional, performance, and operational aspects to establish compliance with Project requirements. This activity maintains analysis of appropriate Prime Contractor system budgets including pointing, mass, power, link, reliability, and other budgets as directed by the Project to assure compliance with requirements. This activity provides for the review, analysis and development of recommendations dealing with Interface Control Documents, launch vehicle interfaces and launch vehicle operations. This activity requires the leadership/participation in Prime Contractor and launch vehicle supplier design, development, and test reviews to resolve issues and assure contract conformance.

Subsystem and Communication Payload Engineering analyzing the design, development, fabrication test and integration of the spacecraft bus and payload subsystems. This activity requires the analysis and review of specifications, drawings, performance reports, test plans and demonstrations at the subsystem component level by the Prime Contractor to: 1) ensure compliance with requirements, 2) assure quality, 3) ensure compatibility with system requirements, 4) assure performance in the operating environment. This activity also provides the development and operation of simulations of payload communication performance, and of other subsystems as necessary.

Operations engineering analyzing the TDRS flight and ground software architecture design and performance, and the tracking, telemetry, and control system RF and digital design and performance. This activity requires review, analysis, and development of recommendations dealing with software design, development processes, and algorithm development and test.

Launch and on-orbit operations engineering analyzing the documentation, plans, procedures, test and telemetry to verify proper systems performance. This activity requires the review, analysis, and development of recommendations dealing with launch, deployment, on-orbit test, and control center functions. The activity may require the assessment of anomalies and developing recommended courses of action. In addition, this activity includes preparing and reviewing prelaunch testing and integrated simulation activities; monitoring flight performance and providing assessments of data and anomalies and recommending courses of action; and providing assessments of on-orbit tests and control center operations and recommending courses of action to assure compliance with performance requirements.

**PERFORMANCE SPECIFICATIONS:**

Progress Reports and Trip Reports shall summarize personal interfaces, content of meeting/review attended, and analyses of spacecraft progress, problems/issues and test results.

Major activities shall be clearly summarized and analyzed with rationale included.

**APPLICABLE DOCUMENTS:**

Not applicable.

**TASK END DATE:** 4/30/00**MILESTONES/DELIVERABLES AND DATES:**

Progress Reports: Weekly

Trip Reports: Within 3 days after completion of travel

Special Reports needed by the Project shall be prepared according to the schedule established by Project Management.

Action Items assigned to this activity shall be dispositioned in a timely manner.

**PERFORMANCE STANDARDS:**

**Schedule:** On-time delivery of the above

**Technical:** Major activities shall be clearly summarized and analyzed with rationale included

**FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):**

Anthony Comberiate, building 12, room C4F